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July 14, 2006

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application 10/567,381
(U.S. Nat'l Phase of PCT/US2004/002702; Int'l Filing Date: January 30, 2004)
For: **Nogo Receptor Antagonists**
Inventors: LEE *et al.*
Our Ref: 2159.0430002/EJH/SAC

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371;
2. Information Disclosure Statement Filing under 37 C.F.R. § 1.97(b);
3. A listing of the cited documents on Form PTO/SB/08A (2 sheets);
4. A listing of the cited documents on Form PTO/SB/08B (3 sheets);
5. A copy of the cited documents FP1-FP16;
6. A copy of the cited documents NPL1-NPL25;
7. First Supplemental Information Disclosure Statement Filing under 37 C.F.R. § 1.97(b);
8. A listing of the cited documents on Form PTO/SB/08A (1 sheet);
9. A listing of the cited documents on Form PTO/SB/08B (2 sheets);
10. A copy of the cited documents NPL26-NPL36; and

Commissioner for Patents
July 14, 2006
Page 2

11. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Shannon A. Carroll, Ph.D.
Attorney for Applicants
Registration No. 58,240

SAC/jk
Enclosures

556559

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LEE *et al.*

Appl. No.: 10/567,381 (*National Phase of PCT/US2004/002702*)

I.A. Filed: January 30, 2004

For: **Nogo Receptor Antagonists**

Confirmation No.: 9649

Art Unit: *To be assigned*

Examiner: *To be assigned*

Atty. Docket: 2159.0430002/EJH/SAC

**Information Disclosure Statement
Filing under 37 C.F.R. § 1.97(b)**

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Forms PTO/SB/08A and PTO/SB/08B are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents **FP1-FP16** and **NPL1-NPL25** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications, documents **US1-US22**, cited on the attached Form PTO/SB/08A are not submitted.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language document **FP10** cited on Form PTO/SB/08A:

Document **FP10**, WO 93/01288 A1, is in a foreign language. The relevance of document **FP10** may be found in the English language abstract included on the face page of said document.

The Examiner's attention is directed to the following U.S. Patent Applications and PCT Patent Applications, which are directed to related technical subject matter:

U.S. Patent Application No. 09/758,140 inventor Strittmatter S.M., filed January 12, 2001; published as US 2002/0012965 A1, cited herein as document **US19**;

U.S. Patent Application No. 09/972,599, inventor Strittmatter S.M., filed October 6, 2001; published as US2002/0077295 A1, cited herein as document **US20**;

U.S. Patent Application No. 09/972,546, inventors Strittmatter *et al.*, filed October 6, 2001; published as US2003/0124704 A1, cited herein as document **US21**;

U.S. Patent Application No. 10/735,256, inventors Strittmatter *et al.*, filed December 12, 2003; published as US2005/0048520 A1, cited herein as document **US22**;

PCT Patent Application No. PCT/US01/01041, applicant Yale University, filed January 12, 2001, published as WO 01/51520 A2, cited herein as document **FP11**;

PCT Patent Application No. PCT/US01/31488, applicants Yale University and Biogen, Inc., filed October 06, 2001, published as WO 02/29059 A2, cited herein as document **FP12**;

PCT Patent Application No. PCT/US02/32007, applicant Yale University, filed October 04, 2002, published as WO 03/031462 A2, cited herein as document **FP13**;

PCT Patent Application No. PCT/US2003/025004, applicant Yale University and Biogen, Inc., filed August 07, 2003, published as WO 04/014311 A2, cited herein as document **FP14**;

PCT Patent Application No. PCT/US2004/011728, applicants and inventors Strittmatter *et al.*, filed April 16, 2004, published as WO 04/093893 A2, cited herein as document **FP15**; and

PCT Patent Application No. PCT/US04/002702, applicants and inventors Lee *et al.*, filed January 30, 2004, published as WO 05/016955 A2, cited herein as document **FP16**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return copies of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Shannon A. Carroll, Ph.D.
Attorney for Applicants
Registration No. 58,240

Date: July 14, 2006

1100 New York Avenue, N.W.
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LEE *et al.*

Appl. No.: 10/567,381 (*National Phase of PCT/US2004/002702*)

I.A. Filed: January 30, 2004

For: **Nogo Receptor Antagonists**

Confirmation No.: 9649

Art Unit: *To be assigned*

Examiner: *To be assigned*

Atty. Docket: 2159.0430002/EJH/SAC

**First Supplemental Information Disclosure Statement
Filing under 37 C.F.R. § 1.97(b)**

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Forms PTO/SB/08A and PTO/SB/08B are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith in connection with the above-captioned application.

Copies of documents **NPL26-NPL36** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications, documents **US23-US28**, cited on the attached Form PTO/SB/08A are not submitted.

The Examiner's attention is directed to the following U.S. Patent Application, which is directed to related technical subject matter:

U.S. Patent Application No. 11/055,163, inventors Lee *et al.*, filed February 10, 2005; published as US2005/0271655 A1, cited herein as document **US28**;

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Date: July 14, 2006
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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| Substitute for form 1449/PTO | | | | Complete if Known | |
| FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Application Number | 10/567,381 (National Phase of PCT/US2004/002702) |
| | | | | I.A. Filing Date | January 30, 2004 |
| | | | | First Named Inventor | Lee, Daniel H.S. |
| | | | | Art Unit | To be assigned |
| | | | | Examiner Name | To be assigned |
| Sheet | 1 | of | 2 | Attorney Docket Number | 2159.0430002/EJH/SAC |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published | T ² |
| | NPL26 | Fournier, A.E., <i>et al.</i> , "Characterization of the neuronal receptor mediating Nogo-66 inhibition of axonal regeneration," <i>J. Neurochem.</i> 78 (Suppl. 1):105, Blackwell Publishing, Abstract No. S08-01 (September 2001) | |
| | NPL27 | Fournier, A.E., <i>et al.</i> , "Nogo Receptor Domain Analysis," <i>Society for Neuroscience Abstracts</i> 27:670, Society for Neuroscience, Abstract No. 258.3, presented at the <i>Society for Neuroscience's 31st Annual Meeting</i> , San Diego, CA (November 12, 2001) | |
| | NPL28 | GrandPre, T.J., <i>et al.</i> , "Functional Analysis of Nogo-66 and Nogo Receptor Domains," <i>Society for Neuroscience Abstracts</i> 27:670, Society for Neuroscience, Abstract No. 258.4, presented at the <i>Society for Neuroscience's 31st Annual Meeting</i> , San Diego, CA (November 12, 2001) | |
| | NPL29 | International Search Report for International Application No. PCT/US2005/002535, European Patent Office, Netherlands, mailed October 24, 2005 | |
| | NPL30 | International Search Report for International Application No. PCT/US05/35719, ISA/US, Alexandria, VA, mailed April 13, 2006 | |
| | NPL31 | International Search Report for International Application No. PCT/US2004/02702, ISA/US, Alexandria, VA, mailed April 20, 2006 | |
| | NPL32 | Li, M., <i>et al.</i> , "Effect of soluble Nogo receptor treatment on functional and histological outcome after spinal cord injury in the rat," <i>Biosis Database</i> , Accession No. PREV200400194121, Abstract No. 80.22, Presented at the <i>33rd Annual Meeting of the Society of Neuroscience</i> , New Orleans, LA (November 8-12, 2003) | |
| | NPL33 | Li, W., <i>et al.</i> , "A Neutralizing Anti-Nogo66 Receptor Monoclonal Antibody Reverses Inhibition of Neurite Outgrowth by Central Nervous System Myelin," <i>J. Biol. Chem.</i> 42:43780-43788, The American Society for Biochemistry and Molecular Biology, Inc. (October 2004) | |
| | NPL34 | Li, W., <i>et al.</i> , "Neutralization of NGR1 May Be Sufficient to Promote Rat DRG Neurite Outgrowth in the Presence of CNS Myeline," <i>SFN 2003 Abstract Viewer & Itinerary Planner</i> , Program No. 678.3, Presented at the <i>33rd Annual Meeting of the Society of Neuroscience</i> , New Orleans, LA (November 8-12, 2003) | |

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|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|---|
| Application Number | 10/567,381 (<i>National Phase of PCT/US2004/002702</i>) |
| I.A. Filing Date | January 30, 2004 |
| First Named Inventor | Lee, Daniel H.S. |
| Art Unit | <i>To be assigned</i> |
| Examiner Name | <i>To be assigned</i> |
| Attorney Docket Number | 2159.0430002/EJH/SAC |

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| Sheet | 2 | of | 2 |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published |
|-----------------------|--------------------------|--|
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[illegible]Examiner
SignatureDate
Considered

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| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
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| Sheet | 1 | of | 2 | Attorney Docket Number | 2159.0430002/EJH/SAC |

| U.S. PATENT DOCUMENTS | | | | |
|-----------------------|-----------------------|--|--------------------------------|--|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
| | | Number-Kind Code ² (if known) | | |
| | US1 | 3,817,837 | 06/18/1974 | Rubenstein <i>et al.</i> |
| | US2 | 3,850,752 | 11/26/1974 | Schuurs <i>et al.</i> |
| | US3 | 3,939,350 | 02/17/1976 | Kronick <i>et al.</i> |
| | US4 | 3,996,345 | 12/07/1976 | Ullman <i>et al.</i> |
| | US5 | 4,275,149 | 06/23/1981 | Litman <i>et al.</i> |
| | US6 | 4,277,437 | 07/07/1981 | Maggio |
| | US7 | 4,366,241 | 12/28/1982 | Tom <i>et al.</i> |
| | US8 | 4,399,216 | 08/16/1983 | Axel <i>et al.</i> |
| | US9 | 4,510,245 | 04/09/1985 | Cousens <i>et al.</i> |
| | US10 | 4,634,665 | 01/06/1987 | Axel <i>et al.</i> |
| | US11 | 4,816,567 | 03/28/1989 | Cabilly <i>et al.</i> |
| | US12 | 4,968,615 | 11/06/1990 | Koszinowski <i>et al.</i> |
| | US13 | 5,168,062 | 12/01/1992 | Stinski |
| | US14 | 5,179,017 | 01/12/1993 | Axel <i>et al.</i> |
| | US15 | 5,223,409 | 06/29/1993 | Ladner <i>et al.</i> |
| | US16 | 5,877,293 | 03/02/1999 | Adair <i>et al.</i> |
| | US17 | 5,886,152 | 03/23/1999 | Nakatani <i>et al.</i> |
| | US18 | 6,054,297 | 04/25/2000 | Carter <i>et al.</i> |
| | US19 | US2002/0012965 A1 | 01/31/2002 | Strittmatter |
| | US20 | US2002/0077295 A1 | 06/20/2002 | Strittmatter |

| FOREIGN PATENT DOCUMENTS | | | | |
|--------------------------|-----------------------|--|--------------------------------|--|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | |
| | FP1 | EP 0 216 846 B1 | 01/10/1990 | CellTech Limited |
| | FP2 | EP 0 256 055 B1 | 08/28/1991 | CellTech Limited |
| | FP3 | EP 0 323 997 B1 | 04/21/1993 | CellTech Limited |
| | FP4 | WO 91/17271 A1 | 11/14/1991 | Affymax Technologies N.V. |
| | FP5 | WO 92/01047 A1 | 01/23/1992 | Cambridge Antibody Technology Limited |
| | FP6 | WO 92/09690 A2 | 06/11/1992 | Genentech, Inc. |
| | FP7 | WO 92/15679 A1 | 09/17/1992 | Protein Engineering Corporation |
| | FP8 | WO 92/18619 A1 | 10/29/1992 | The Scripps Research Institute |
| | FP9 | WO 92/20791 A1 | 11/26/1992 | Cambridge Antibody Technology Limited |
| | FP10 | WO 93/01288 A1 | 01/21/1993 | Deutsches Krebsforschungszentrum Stiftung Des Öffentlichen Rechts |
| | FP11 | WO 01/51520 A2 | 07/19/2001 | Yale University |
| | FP12 | WO 02/29059 A2 | 04/11/2002 | Yale University; Biogen, Inc. |

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| | | | | Application Number | 10/567,381 (<i>National Phase of PCT/US2004/002702</i>) |
| | | | | I.A. Filing Date | January 30, 2004 |
| | | | | First Named Inventor | Lee, Daniel H.S. |
| | | | | Art Unit | To be assigned |
| Examiner Name | To be assigned | | | | |
| Sheet | 1 | of | 3 | Attorney Docket Number | 2159.0430002/EJH/SAC |

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| | | | | I.A. Filing Date | January 30, 2004 |
| | | | | First Named Inventor | Lee, Daniel H.S. |
| | | | | Art Unit | To be assigned |
| Examiner Name | To be assigned | | | | |
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| | NPL12 | Li, S. and Strittmatter, S.M., "Delayed Systemic Nogo-66 Receptor Antagonist Promotes Recovery from Spinal Cord Injury," <i>J. Neurosci.</i> 23:4219-4227, Society for Neuroscience with the assistance of Stanford University's HighWire Press™ (May 2003) | |
| | NPL13 | Liu, B.P., <i>et al.</i> , "Myelin-Associated Glycoprotein as a Functional Ligand for the Nogo-66 Receptor," <i>Science</i> 297:1190-1193, American Association for the Advancement of Science (published online June 27, 2002) | |
| | NPL14 | Liu, Y., <i>et al.</i> , "Transplants of Fibroblasts Genetically Modified to Express BDNF Promote Regeneration of Adult Rat Rubrospinal Axons and Recovery of Forelimb Function," <i>J. Neurosci.</i> 19:4370-4387, Society for Neuroscience with the assistance of Stanford University's HighWire Press™ (1999) | |
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| | NPL21 | Rutishauser, U. and Jessell, T.M., "Cell Adhesion Molecules in Vertebrate Neural Development," <i>Physiol. Rev.</i> 68:819-857, the American Physiological Society (1988) | |
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